

Thu Sep 5 14:39:33 2002

us-09-647-067-8.rsp

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Appendix A

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 5, 2002, 08:25:21 : Search time 56.19 seconds
(without alignments)
497.518 Million cell updates/sec

Title: US-09-647-067-8

Perfect score: 1034
Sequence: 1 MTSQVFFETILFGKFFSHG.....FTTPCENSLSISOSTRLNYS 722

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 105224 seqs, 38719550 residues

Total number of hits satisfying chosen parameters: 105224

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: SwissProt_40.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	832	21.7	1115	1	GPCR_LYMST
2	505	13.2	693	1	FSHR_CHICK
3	501	13.1	695	1	FSHR_SHEEP
4	498	13.0	695	1	FSHR_BOVIN
5	488	12.7	695	1	FSHR_PIG
6	487.5	12.7	696	1	FSHR_CALJA
7	484.5	12.6	694	1	FSHR_HORSE
8	481.5	12.6	692	1	FSHR_RAT
9	481.5	12.6	696	1	FSHR_PIG
10	481	12.5	695	1	FSHR_MACFA
11	478	12.5	695	1	FSHR_HUMAN
12	475.5	12.4	692	1	FSHR_MOUSE
13	474.5	12.4	687	1	FSHR_EQUAS
14	471.5	12.3	700	1	FSHR_MOUSE
15	470.5	12.3	700	1	FSHR_RAT
16	469	12.2	699	1	FSHR_HUMAN
17	463.5	12.1	701	1	FSHR_BOVIN
18	451.5	11.8	925	1	GLHR_AMEL
19	450	11.7	763	1	FSHR_BOVIN
20	447.5	11.7	764	1	FSHR_MOUSE
21	440.5	11.5	764	1	FSHR_SHEEP
22	437	11.4	764	1	FSHR_RAT
23	431	11.2	764	1	FSHR_HUMAN
24	430	11.2	764	1	FSHR_CALJA
25	400	10.4	538	1	FSHR_SHEEP
26	351	9.2	366	1	FSHR_CHICK
27	302	7.9	603	1	AUS_RAT
28	296	7.7	603	1	AUS_HUMAN
29	294	7.7	603	1	AUS_MOUSE
30	293.5	7.7	605	1	AUS_PAPHA
31	286.5	7.5	905	1	TLR3_MOUSE
32	286.5	7.5	1480	1	SLIT2_DROME
33	275.5	7.2	536	1	CBP8_HUMAN

34	268	7.0	361	1	CHAD_BOVIN
35	260	6.8	859	1	TLR5_MOUSE
36	258	6.7	713	1	GACI_HUMAN
37	253.5	6.6	1315	1	CHAO_DROME
38	249	6.5	331	1	PLIB_AGRBL
39	244.5	6.4	343	1	LDL_CHICK
40	243.5	6.4	904	1	TLR3_HUMAN
41	241	6.3	567	1	GPV_MOUSE
42	240	6.3	382	1	PRLP_HUMAN
43	235	6.1	682	1	CONN_DROME
44	235	6.1	782	1	CHAO_TRICA
45	233	6.1	966	1	Y916_HUMAN

ALIGNMENTS

RESULT	ID	GPCR_LYMST	STANDARD:	PRT:	1115 AA.
AC	P46023				
DR	01-NOV-1995 (Rel. 32, Created)				
DR	01-NOV-1995 (Rel. 32, Last sequence update)				
DR	16-OCT-2001 (Rel. 40, Last annotation update)				
DE	G-protein coupled receptor GRU101 precursor.				
OS	Lymnaea stagnalis (great pond snail).				
CC	Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Basommatophora;				
CC	Lymnaeidae; Lymnaea.				
OX	NCBI_TaxID=6523;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RC	TISSUE=CNS;				
RX	MEDLINE=44255418; PubMed=8197140;				
RA	Tensen C.P., Van Kesteren B.R., Planta R.J., Cox K.J.A., Burke J.F.,				
RA	Van Heerikhuizen H., Vreugdenhil E.;				
FT	"A G-protein-coupled receptor with low density lipoprotein-binding motifs suggests a role for lipoproteins in G-linked signal transduction."				
RT	Proc. Natl. Acad. Sci. U.S.A. 91:4816-4820(1994).				
RL	FUNCTION: NIGHT DIRECTLY TRANSDUCE SIGNALS CARRIED BY LARGE EXTRACELLULAR (LIPID) PROTEIN(COMPLEX)S INTO NEURONAL EVENTS.				
CC	-1- SUBCELLULAR LOCATION: Integral membrane protein.				
CC	-1- TISSUE SPECIFICITY: PREDOMINANTLY EXPRESSED IN A SMALL NUMBER OF NEURONS WITHIN THE CENTRAL NERVOUS SYSTEM AND TO A LESSER EXTENT IN THE HEART.				
CC	-1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.				
CC	-1- SIMILARITY: CONTAINS 12 LDL-RECEPTOR CLASS A DOMAINS.				
CC	-1- SIMILARITY: CONTAINS 7 LEUCINE-RICH REPEATS (LRR).				
CC	-1- This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation at the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@sib-sib.ch).				
CC	EMBL: Z23104; CA680651.1; ..				
DR	PIR: S40241; S40241.				
DR	HSSP: 007954; 1CR8.				
DR	GCRDb: GCR_0860; ..				
DR	InterPro: IPR000276; GPCR_Rhodospn.				
DR	InterPro: IPR002172; LDL_Receptl_A.				
DR	InterPro: IPR001611; LRR.				
DR	InterPro: IPR000372; LRR_Nterm.				
DR	InterPro: IPR003592; LRR_Cyp.				
DR	InterPro: IPR000017; LRR_Out.				
DR	Pfam: PF00001; 7tm_1; 1.				
DR	Pfam: PF00057; 7tm_1; 1.				
DR	Pfam: PF00560; LRR_6.				
DR	Pfam: PF01462; LRRNT_1.				
DR	PRINTS: PR00237; GPCRHDOPS_N.				
DR	PRINTS: PR00261; LDLRECEPTOR.				